

1/18

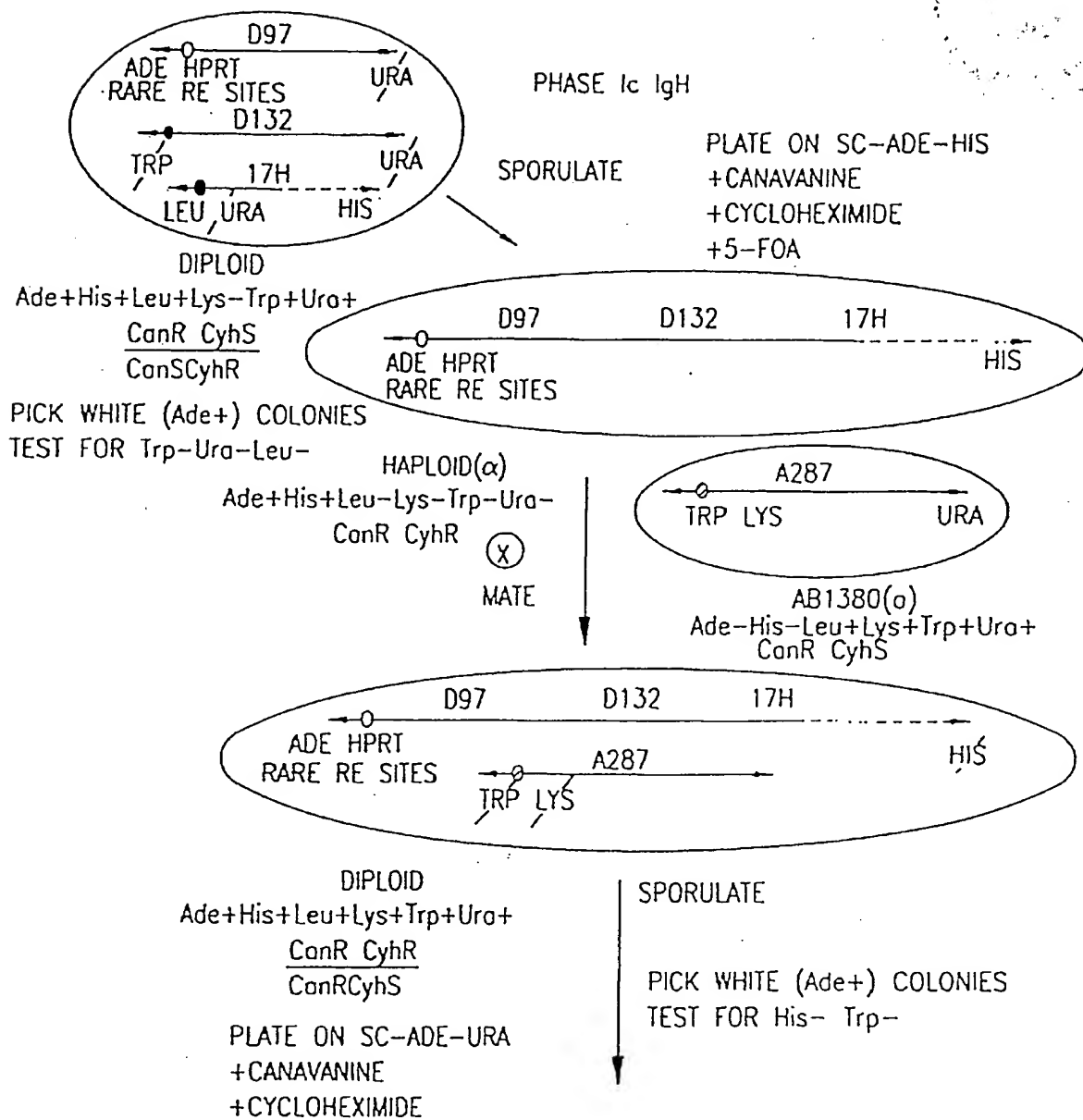
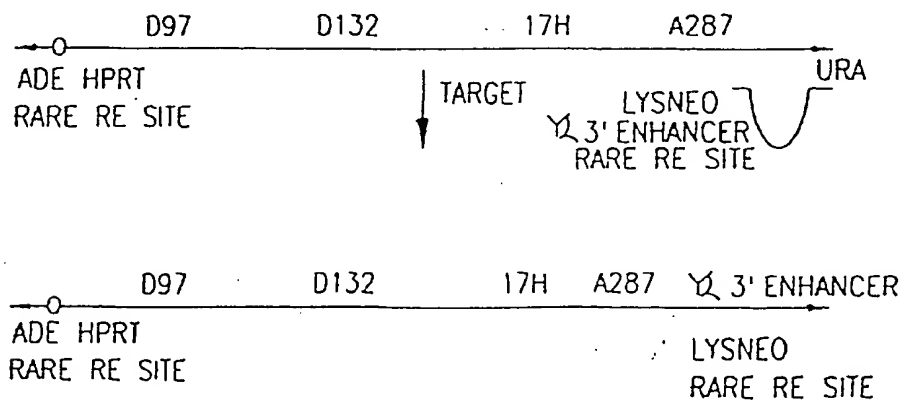


FIG. 1



26 Kip



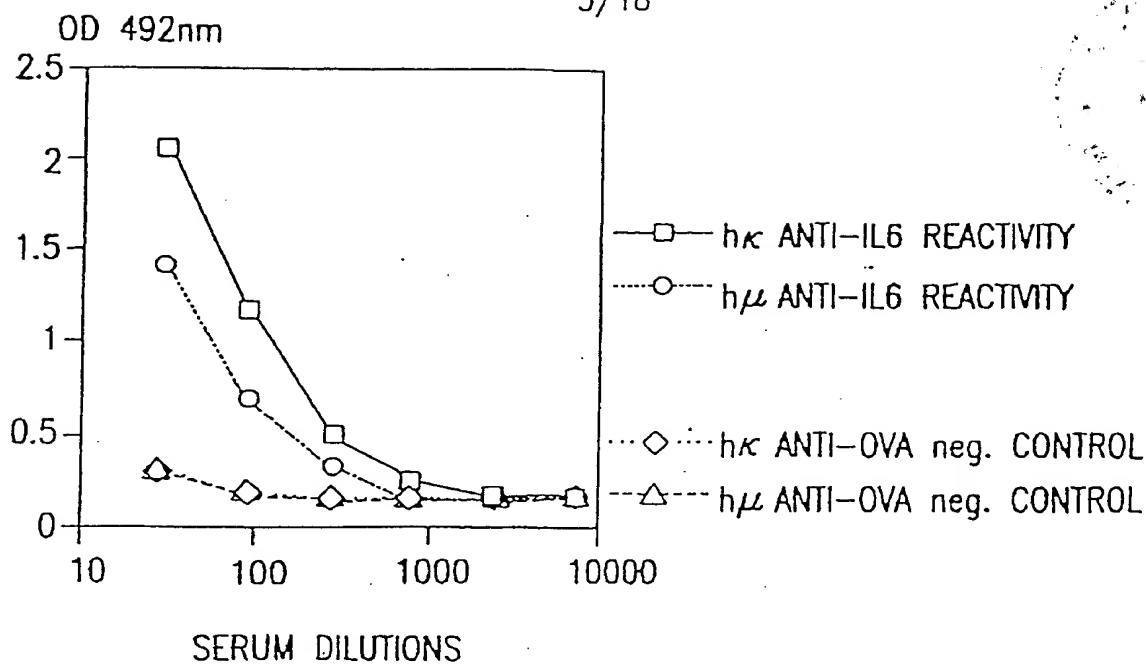


FIG.3

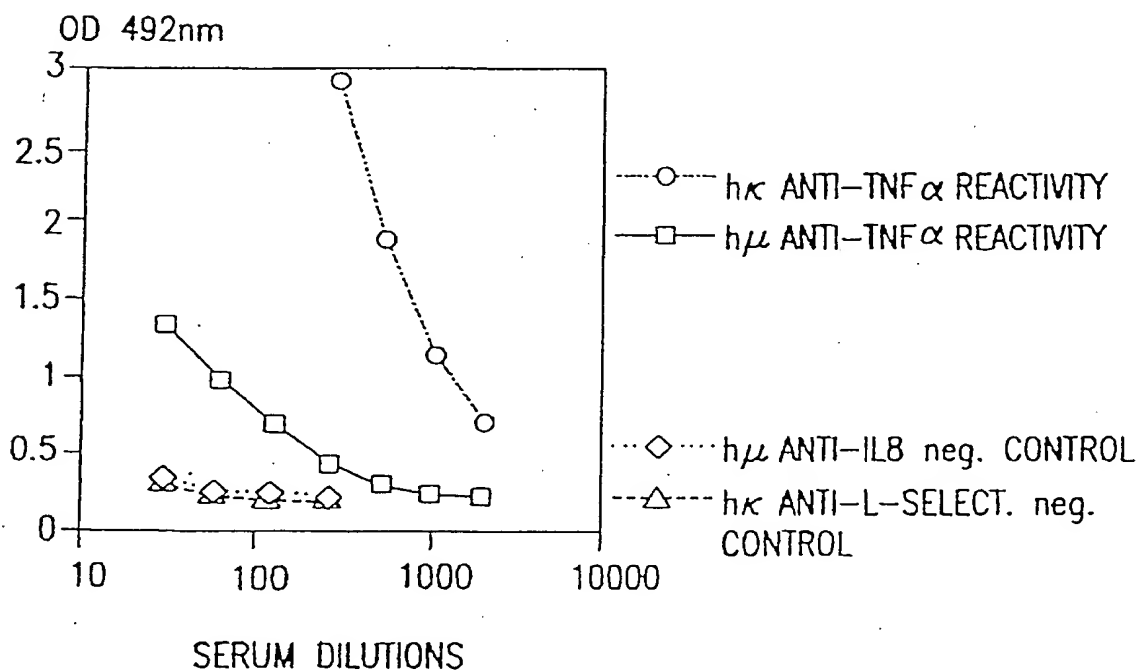


FIG.4

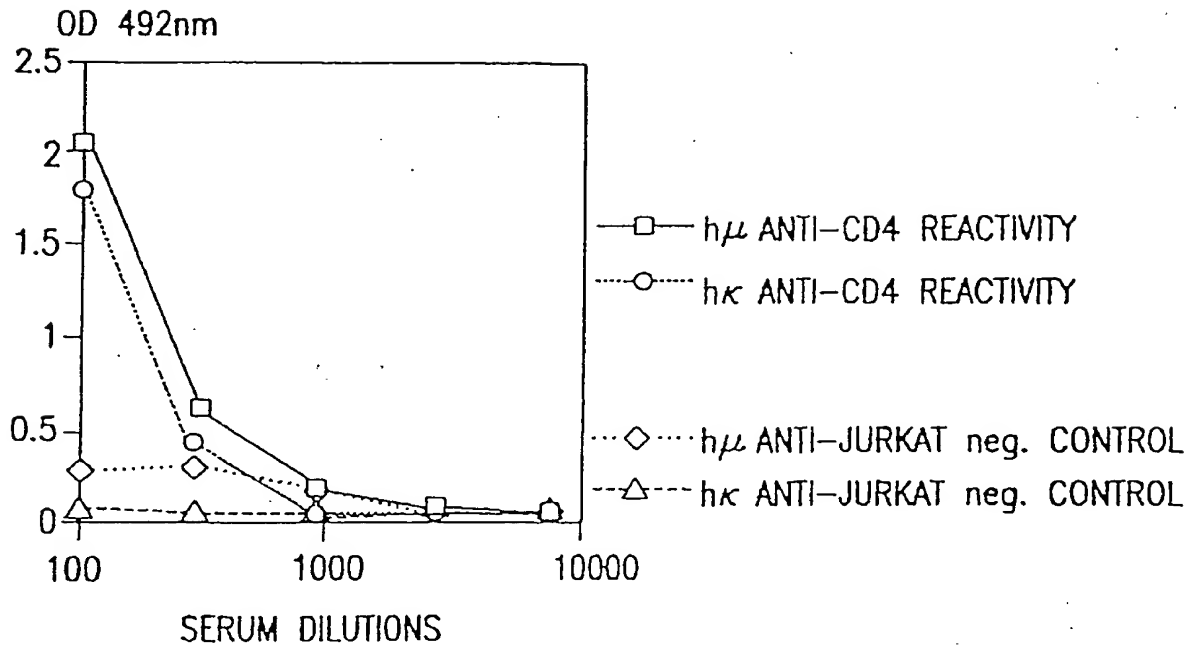


FIG.5

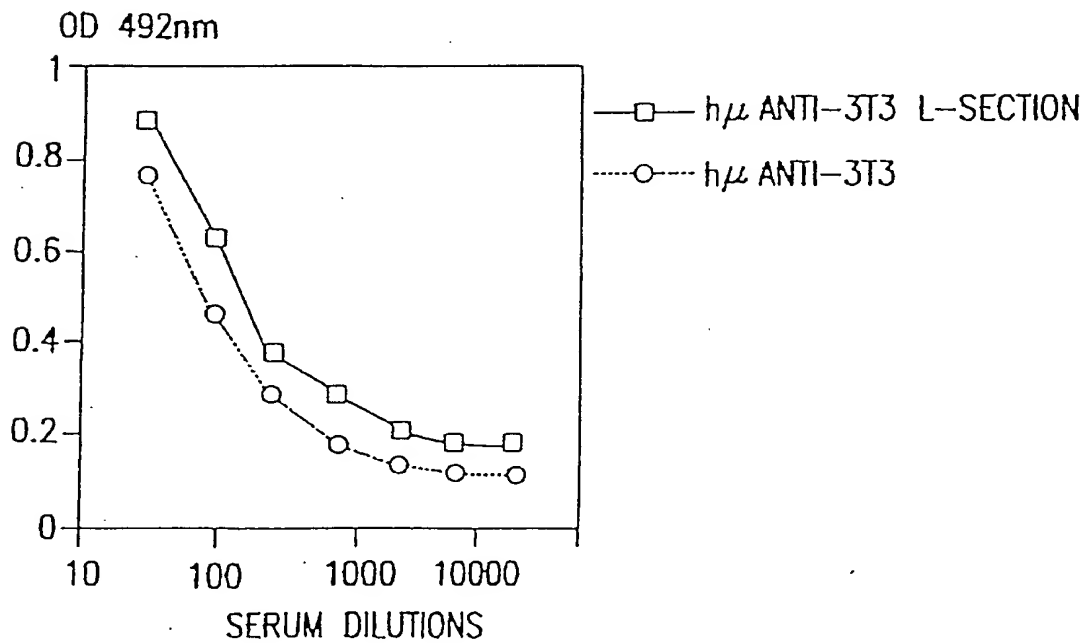


FIG.6

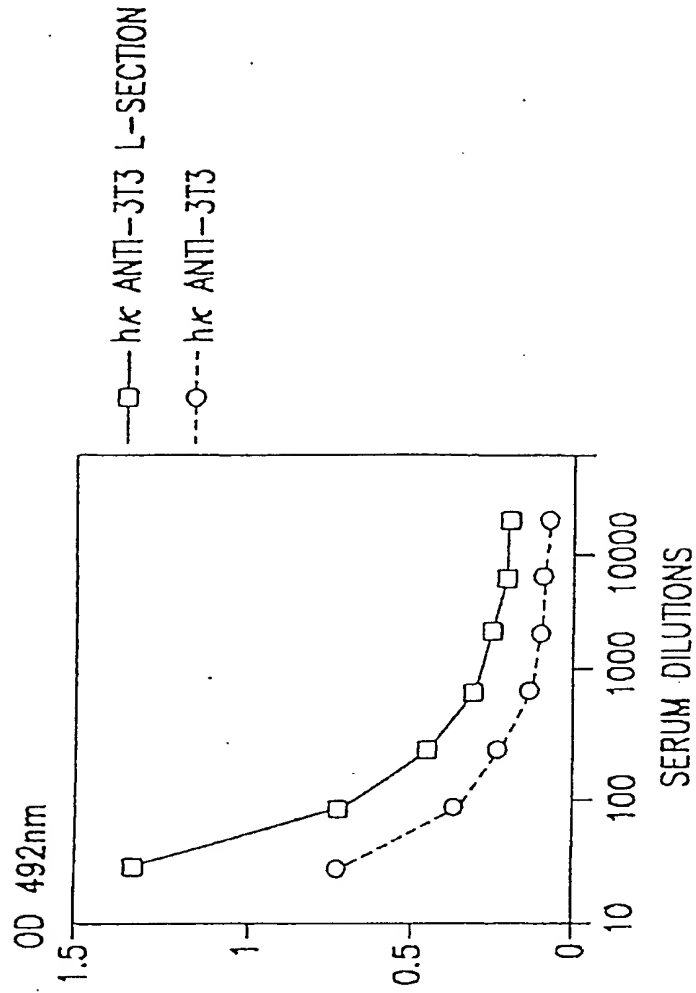


FIG.7

6/18

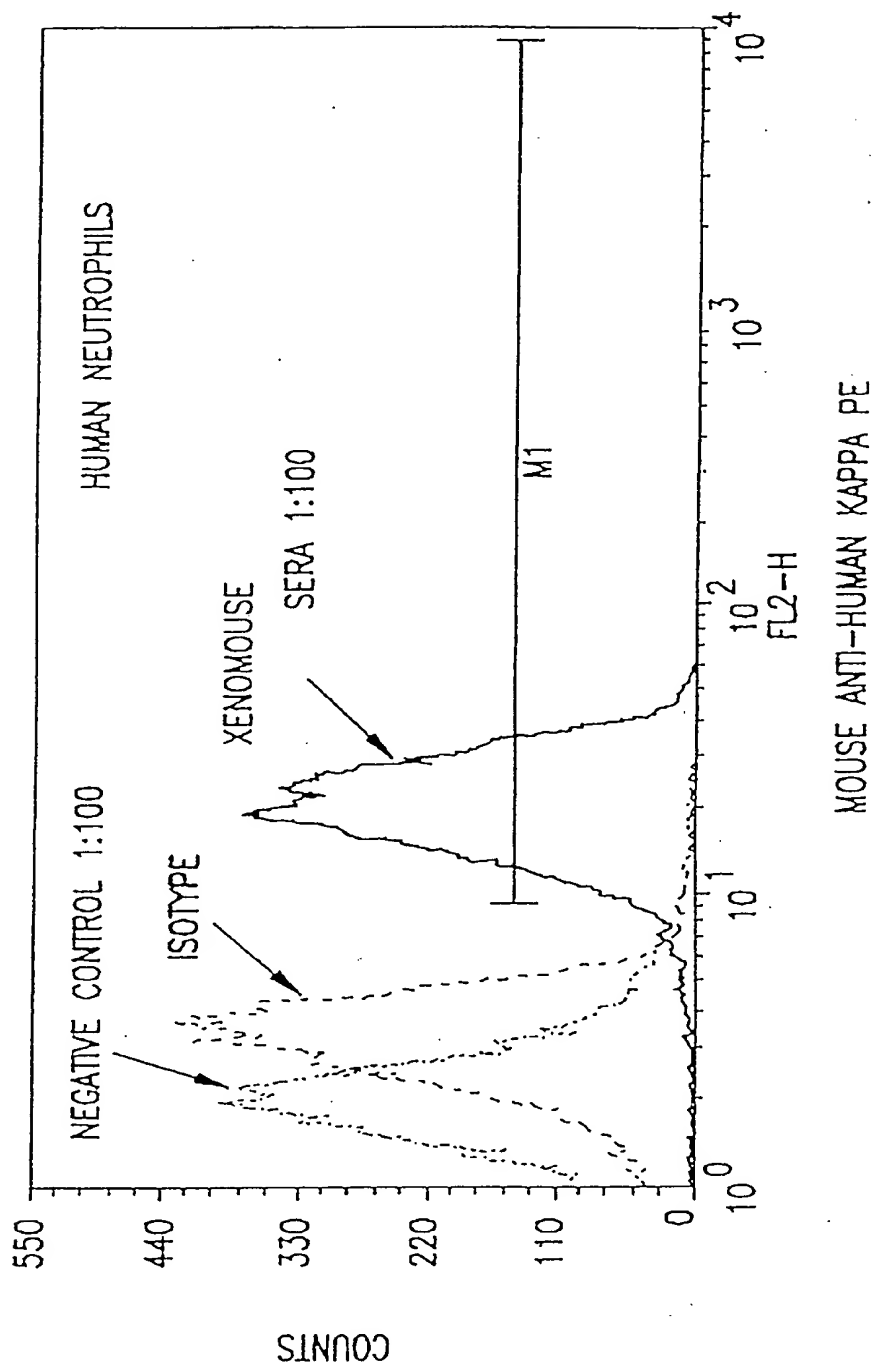


FIG.8

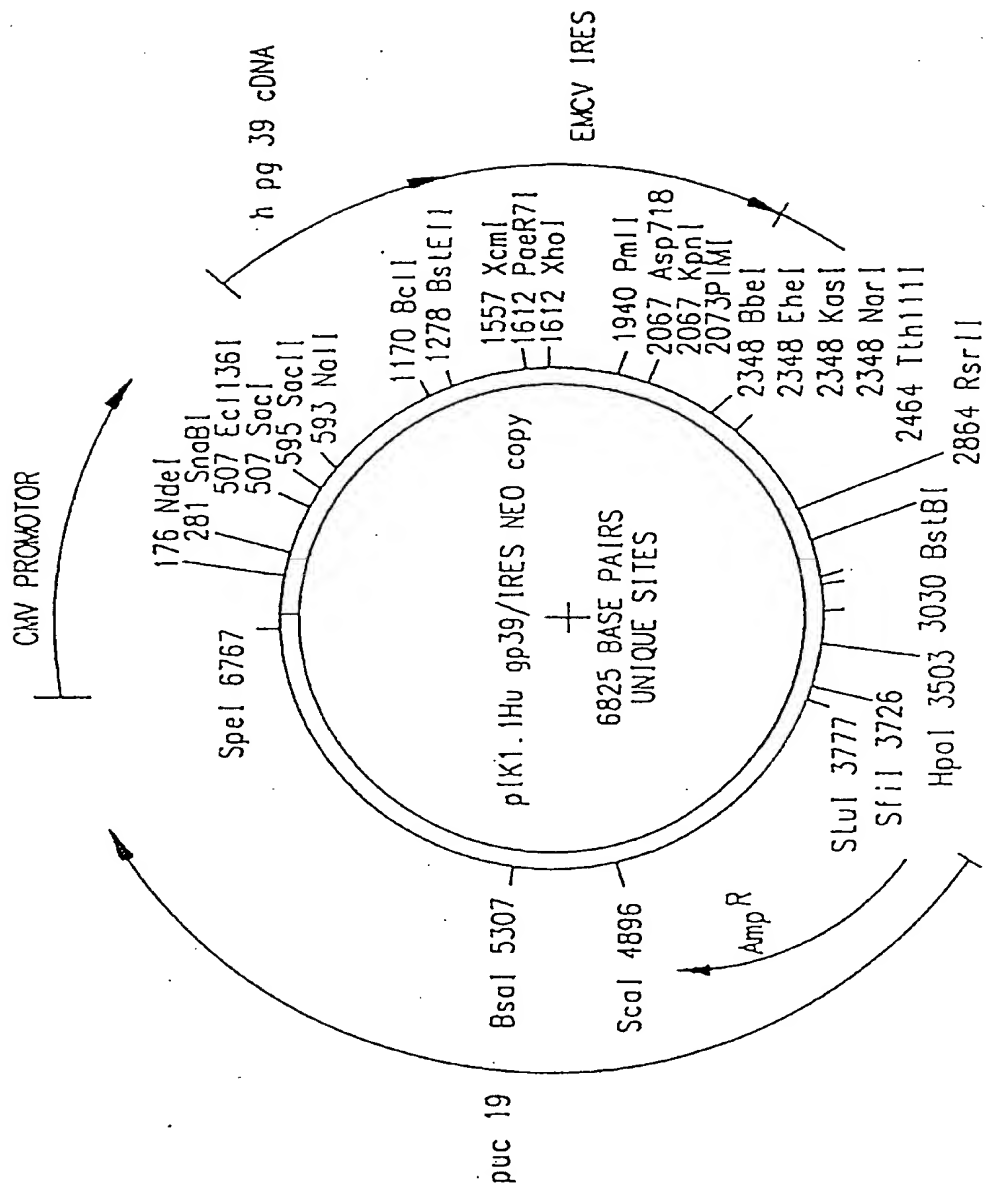


FIG.9

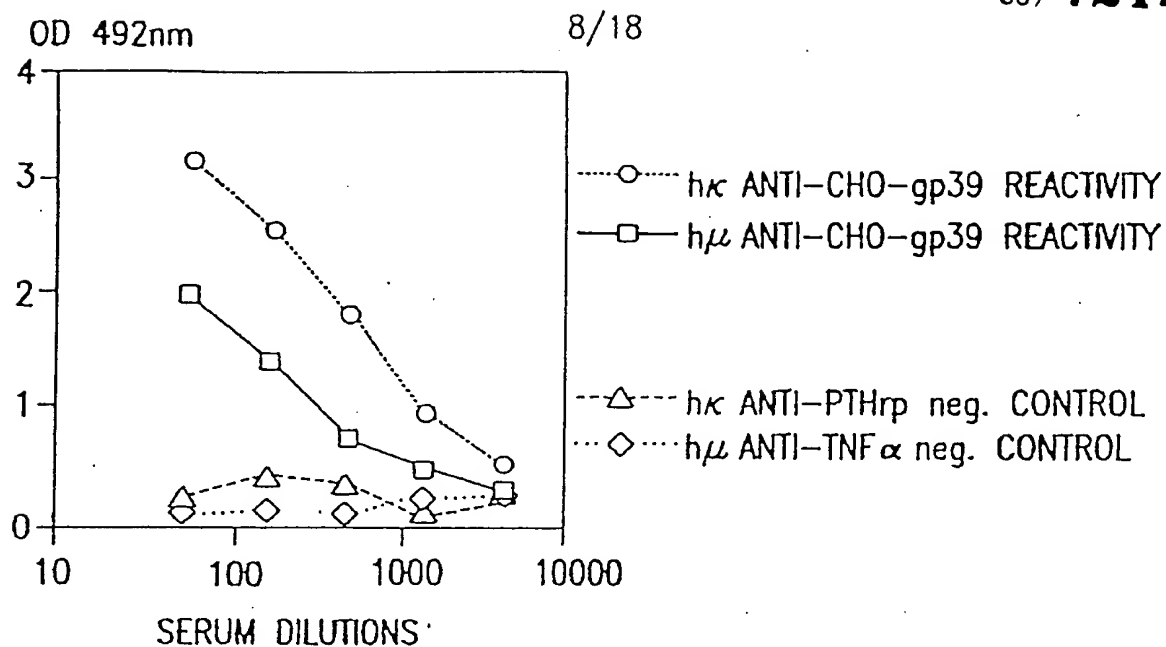


FIG.10

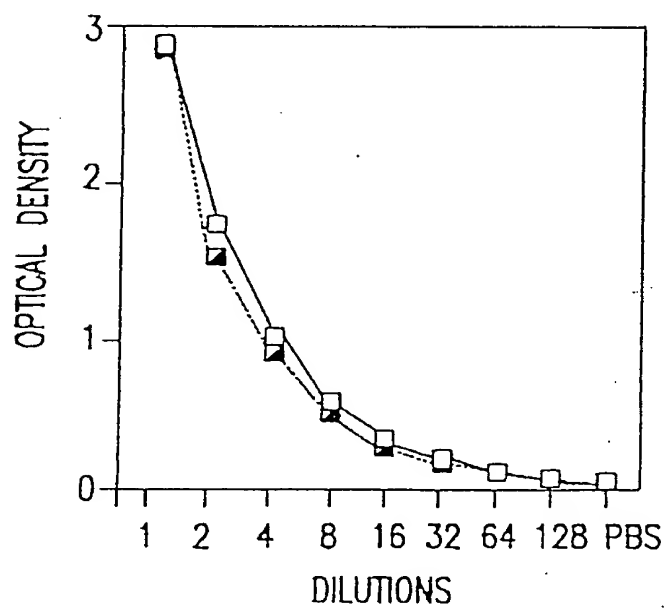


FIG.11



9/18

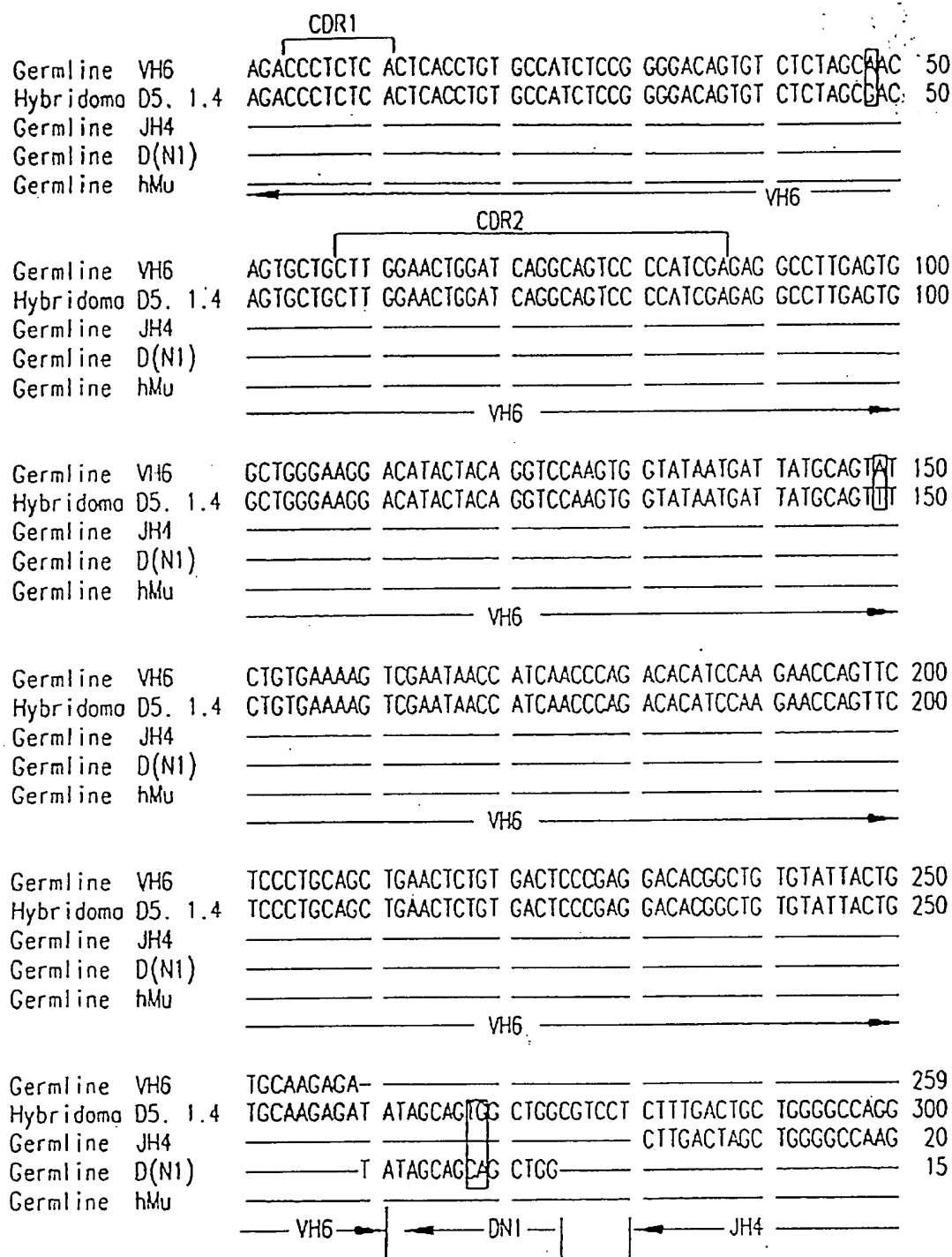


FIG.12A

10/18

Germline	VH6	_____	_____	_____	_____	_____	259
Hybridoma	D5. 1.4	GAACCTGGT	CACCGTCTCC	TCAGGGAGTG	CATCCGCCCC	AACCCTTTTC	350
Germline	JH4	GAACCTGGT	CACCGTCTCC	TCA_____	_____	_____	43
Germline	D(N1)	_____	_____	_____	_____	_____	15
Germline	hMu	_____	_____	GGGAGTG	CATCCGCCCC	AACCCTTTTC	27
		_____ JH4 _____		→   ←	_____ hμ _____		
Germline	VH6	_____	_____	_____	_____	_____	259
Hybridoma	D5. 1.4	CCCCCTCGTCT	CCTGTGAGAA	TTCCCCGTCG	GATACGAGCA	GCGTGCCCGT	400
Germline	JH4	_____	_____	_____	_____	_____	43
Germline	D(N1)	_____	_____	_____	_____	_____	15
Germline	hMu	CCCCCTCGTCT	CCTGTGAGAA	TTCCCCGTCG	GATACGAGCA	GCGTGCCCGT	77
		_____	_____	hμ _____	_____	_____	

FIG.12B

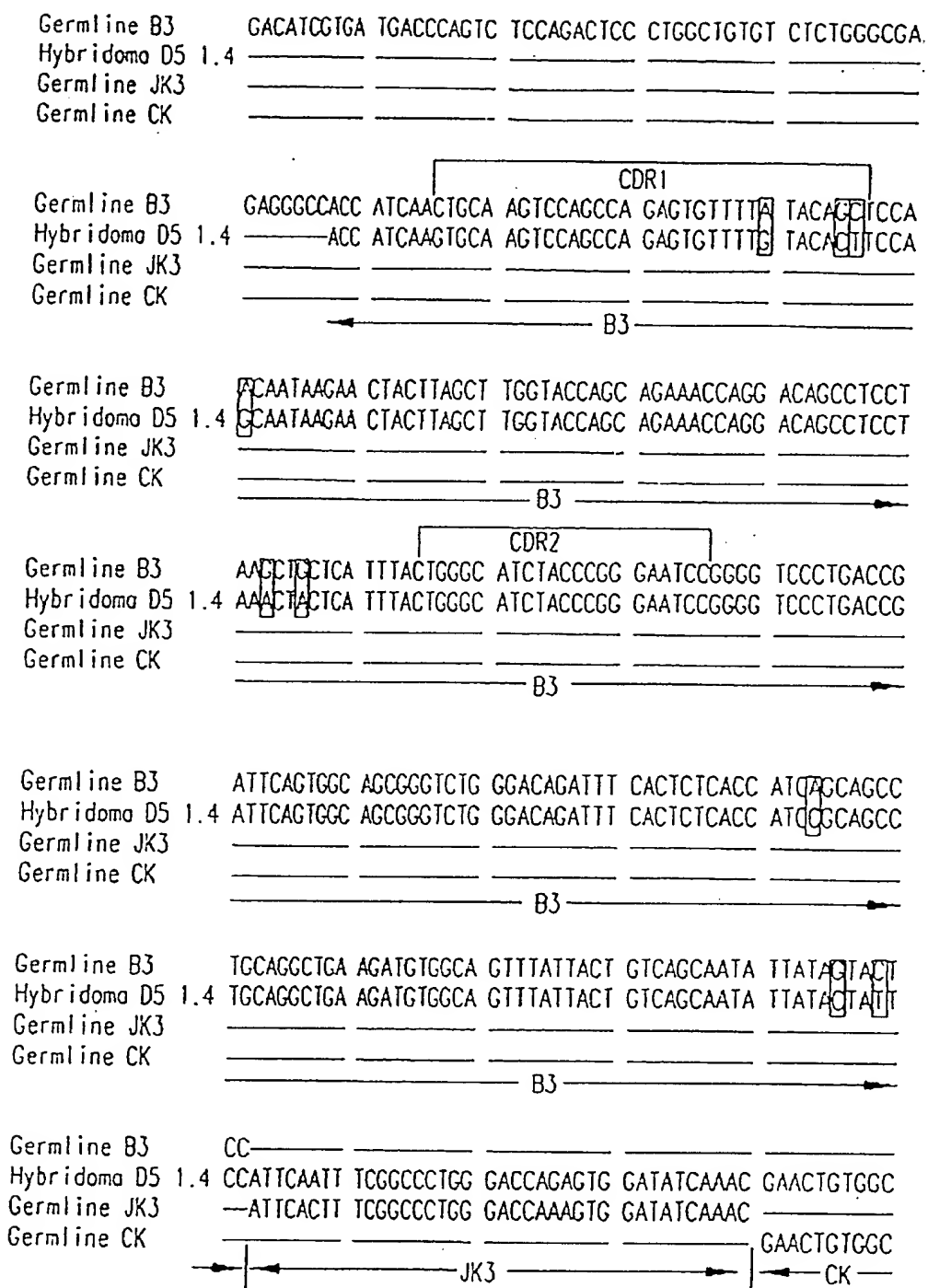


FIG.13A

Germline B3	_____	_____	_____	_____	_____
Hybridoma D5 1.4	TGCACCATCT	GTCTTCATCT	TCCCGCCATC	TGATGAGCAG	TTGAAATCTG
Germline JK3	_____	_____	_____	_____	_____
Germline CK	TGCACCATCT	GTCTTCATCT	TCCCGCCATC	TGATGAGCAG	TTGAAATCTG
	_____ CK _____				

Germline B3	_____	_____	_____	_____	_____
Hybridoma D5 1.4	GAACGCGCTC	TGTTGTGTGC	CTGCTGAATA	ACTTCTATCC	CAGAGAGGCC
Germline JK3	_____	_____	_____	_____	_____
Germline CK	GAACGCGCTC	TGTTGTGTGC	CTGCTGAATA	ACTTCTATCC	CAGAGAGGCC
	_____ CK _____				

Germline B3	_____	_____	_____	_____	_____
Hybridoma D5 1.4	AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC	CAATCGGGTT	GGGGAAAAA
Germline JK3	_____	_____	_____	_____	_____
Germline CK	AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC	CAATCGGGT-	_____
	_____ CK _____				

FIG.13B

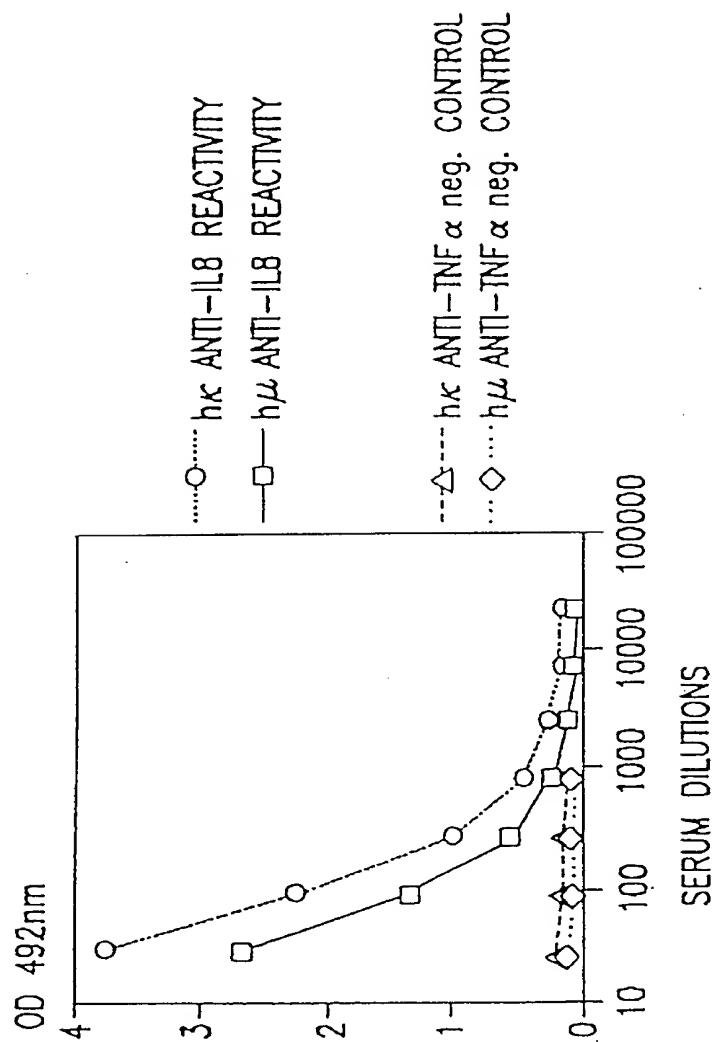


FIG.14

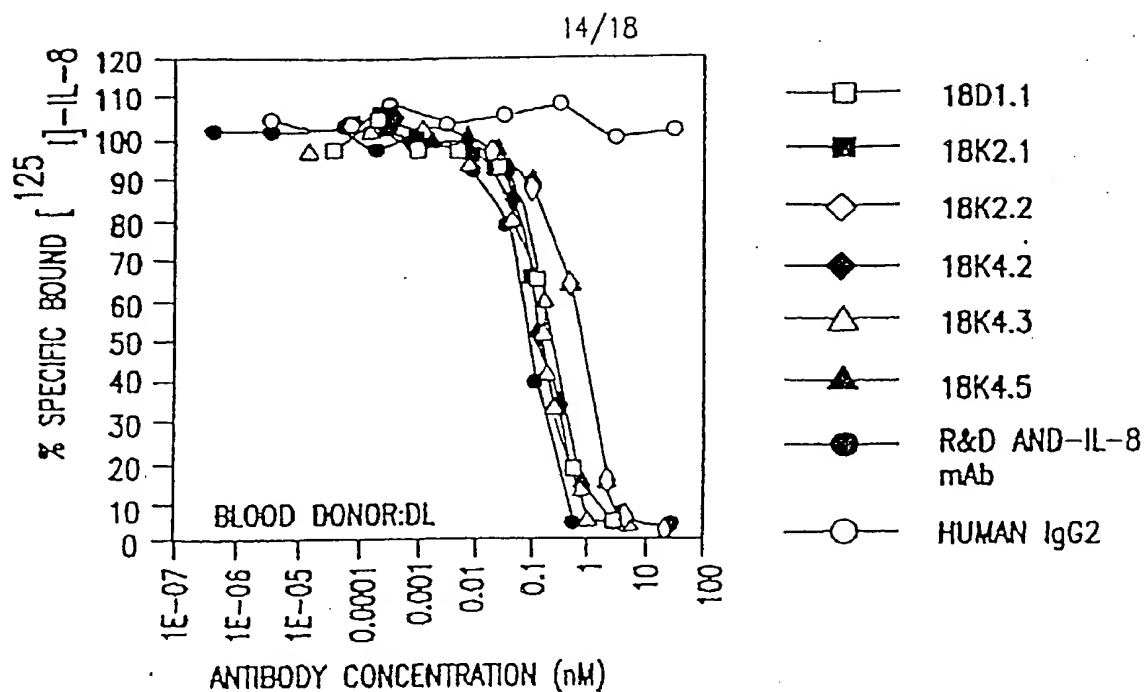


FIG.15A

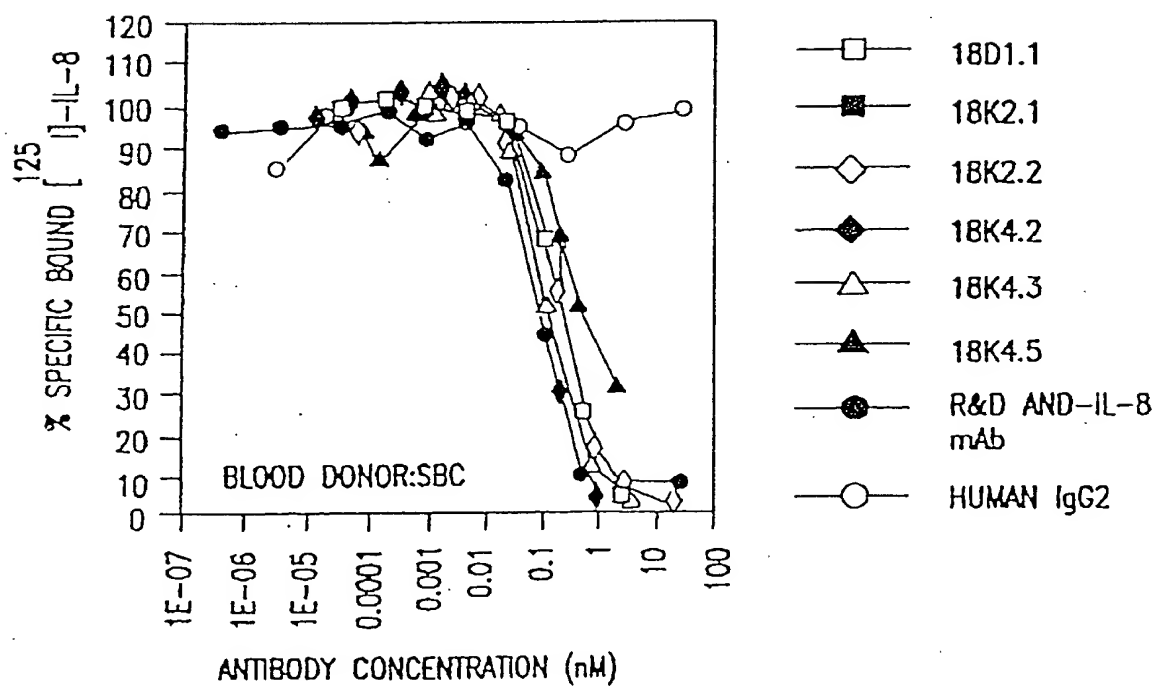


FIG.15B

15/18

[CCTGTCCCTCACCTGCGCTGTCATGGTGGGTCTTCAGTGGTTACTACTGGAGCTGGATCCGCC  
AGCCCCAGGGAAGGGACTGGAGTGGATTGGGGAAATCAATCAAAGTGGGAAGCACCAATTACAA  
CCCGTCCCTCAAGAGTCGAGTCATCATATCATAGACACGTCCAAGACCCAGTTCTCCCTGAAAT  
TGAGCTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAGA][GACTCCCC][ATGCT  
TTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCAG]CCTCCACCAAGGGCCCCATCGG  
TCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GCCCTGGGCTGCCTG  
GTCAAGGACTACTTCC

FIG. 16A

[CAGTCTCCATCCTCCCTGTCTGCATCTGTAGGCGACAGAGTCACCATCACTTGCCAGGCGAGTC  
AGGACATTAGTAAGTTTTTAAGTTGGTTTCAACAGAAACCAGGGAAAGCCCCTAACTCCTGATC  
TACGGTACATCCTATTTGGAAACCGGGGTCCCATCAAGTTTCAGTGGGAAGTGGATCTGGGACAGA  
TTTTACTCTCACCATCAGCAGCCTGCAGCCTGAAGATGTTGCAACATATTTCTGTAACAGNATG  
ATGATCTCCC][ATACACTTTCGGCCCTGGGACCAAGTGGATATCAAAC]GAACTGTGGCTGCAC  
CATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCC  
TGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGGAAGGTGGATACGCCC

FIG. 16B

[AGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGATTCACTTCAGTAGCTAIGGCATGCACTGGNT  
CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGAAATATCATATGATGGAAGTAATAAA  
TACTATGTAGACTCCGTGAAGGGCCGACTCACCACTCCAGAGACAAITCCAAGAACACGCTGT  
ATCTGCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGIGIATTACTGTGCGAGAGA][CCGAC  
TGGGGAT][CTITGACTACTGGGGCCAGGGAACCTGGTCACCGTCTCCTCAG]CCTCCACCAAGG  
GCCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCT  
GGGCTGCCTGGTCCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCTGGAACCTCAGGCGCTC  
TGACCAG

FIG. 16C

[CTGACNCAGTCTCCAGACTCCCTGGCTGTGTCTCTGGGCGAGAGGGCCACCATCAACTGCAAGT  
CCAGCCAGAGTGTTTTATACATCTCCAACAATAAACTACTTAGCTTGGTACCAGCAGAAACCA  
GGACAGTCTCCTAAACTGCTCATTTACTGGGCATCTACCCGGAAICCGGGGTCCCTGACCGATT  
CAGTGGCAGCGGGTCTGGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGGCTGAAGATGTG  
GCAGTTTATTACTGTCAACAGTATTATGATACTCC][ATTCACTTTCGGCCCTGGGACCAAAAGTGG  
ATATCAAAC]GAACTGTGGCTGCACCATCTGTCTTCATCTTCCGCCATCTGATGAGCAGTTGAAA  
TCTGGAACCTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTG  
GAAGGTGGNTAACGCCCA

FIG. 16D



[TCCCTCACCTGCGCTGTCTATGGTGGGTCTTCAGTGGTTACTACTGGACCTGGATCCGCCAGCC  
CCCAGGGAAGGGGCTGGAGTGGATTGGGGAAATCATTCAICATGGAAACACCAACTACAACCCG  
TCCCTCAAGAGTCGAGTCTCCATATCAGTTGACACGICCAAGAACCAGTTCICCCIGACACTGAG  
CTCTGTGACCGCCGCGGACACGGCTGTGTATTA TACTGTGCGAGAGG][GGGAGCAGTGGCTGCG][T  
TTGACTACTGGGGCCAGGGAACCTGGTCACCGTCTCCTCAG]CCTCCACCAAGGGCCCATCGGT  
CTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCTGGGCTGCCTG  
GTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGTGG/MCTCAGGCGCTCTGACCAGCGGC  
GTGCACACCTTCCCA

FIG. 16E

[TGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCAICACTTGCCAGGC  
GAGTCAGGACATTAGTAACTATTTAAATTGGTATCAACAGAAAGCAGGGAAAGCCCCCTAAGGTCC  
TGATCTACGCTGCATCCAATTTGGAAGCAGGGGTCCCATCAAGGTTCAGTGGAAGTGGATCTGGG  
ACAGATTTTACTTTACCATCAGCAGCCTGCAGCCTGAAGATATTGCAACATATTATTGTCAACA  
CTATGATAATCTJA[CTCACTTTCGGCGGAGGGACCAAGGTAGAGATCAAAC]GAACTGTGGCTGC  
ACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAAICTGGACTGCCTCTGTTGTGTG  
CCTGCTGAATAACITCTATCCCAGAGAGGCCAAAGTACAGTGGAAAGGTGG

FIG. 16F

18/18

AGTCTCTGAAGATCTCCTGTAAGGGTCTGGATACAGCTTTACCAGCTACGGATCGGCIGGGTG  
CGCCAGATGCCCGGGAAAGGCCTGGAGGGATGGGATCACTATCCTGGTGACTCTGATACCA  
GATACAGCCCGTCCTTCCAAGGCCAGGTCACCACTCAGCCGACAGTCCATCAGCACCGCCTA  
CCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTAATACTGTGCGAGACA][GGACGG  
TG][ACTCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGGG  
CCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCIG  
GGCTGCCTGGTCCAAGGACTACTTCCCCGAACCGGTGACGGIGTGTGGAACCTCAGGCGCTCT  
GACCAGCGGCGTGCACACCTTCCCACTGCCA

FIG. 16G

TGTCTGCATCTATTGGAGACAGAGTCACCATCACTTGCCGGGCAGTCAGAGCATTAGCAACTA  
TTTAAATTGGTATCAGCAGAAACCAGGGCAAAGCCCCTAGTTCCTGATCTATGGTGCATCCAGT  
TTGGAAAGTGGGGTCCCATCANGGTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACCAT  
CAGCAGCCTGCAACCTGNGGATTTTGCAACTTACTACGTCAACAGAGTTACAGTAACCC]T[CTC  
ACTTTCGGCGGNGGGACCAANGTGGAGATCAAAC]GAACTGTGGCTGCACCATCTGTCTTCATCT  
TCCCGCCATCTGATGAGCAGTTGAAATCTGGAACCTGCCTCTGTTGTGTGCCTGCTGAATAACTTCT  
ATCCCAGAGAGGCCAAAGTACA

FIG. 16H